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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/584,260	06/26/2006	Hirotsugu Kusano	293037US3X PCT	5653
OBLON, SPIVAK, MCCLELLAND MAIER & NEUSTADT, L.L.P. 1940 DUKE STREET ALEXANDRIA, VA 22314			EXAMINER	
			PILKINGTON, JAMES	
ALEAANDRIA, VA 22314			ART UNIT	PAPER NUMBER
			3656	
			NOTIFICATION DATE	DELIVERY MODE
			08/26/2009	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

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	Application No.	Applicant(s)			
	10/584,260	KUSANO ET AL.			
Office Action Summary	Examiner	Art Unit			
	JAMES PILKINGTON	3656			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim vill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	l. lely filed the mailing date of this communication. (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on <u>26 Ja</u> This action is <b>FINAL</b> . 2b)⊠ This     Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro				
Disposition of Claims					
4) ☐ Claim(s) 1-5 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 1-5 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or					
9)⊠ The specification is objected to by the Examine	r.				
10)⊠ The drawing(s) filed on <u>26 June 2006</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.  Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).					
11)☐ The oath or declaration is objected to by the Ex	aminer. Note the attached Office	Action or form PTO-152.			
Priority under 35 U.S.C. § 119					
<ul> <li>12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:</li> <li>1. Certified copies of the priority documents</li> <li>2. Certified copies of the priority documents</li> <li>3. Copies of the certified copies of the prior application from the International Bureau</li> <li>* See the attached detailed Office action for a list of the certified copies of the attached detailed Office action for a list of the certified copies</li> </ul>	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage			
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date 9/22/06 1/26/07.	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	te			

#### **DETAILED ACTION**

### **Priority**

Receipt is acknowledged of papers submitted under 35 U.S.C. 119(a)-(d), which papers have been placed of record in the file.

## Specification

The abstract of the disclosure is objected to because reference characters are not in parentheses. Correction, by either adding in parentheses or deleting the reference characters, is required.

## Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1 recites the limitations "on one side face" in line 7 and "the other side face" in line 8. There is insufficient antecedent basis for these limitations in the claim. The shape of the groove is not previously defined in the claim and could be semi-circular in shape which does not include side faces.

Claim 2 recites the limitations "the greater chamfered portion" in lines 1-2. There is insufficient antecedent basis for these limitations in the claim.

Claim 3 recites the limitations "on one side face" in line 8 and "the other side face" in line 10. There is insufficient antecedent basis for these limitations in the claim.

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The shape of the groove is not previously defined in the claim and could be semicircular in shape which does not include side faces.

Claim 4 recites the limitations "the greater chamfered portion" in lines 1-2. There is insufficient antecedent basis for these limitations in the claim.

Claim 5 recites the limitations "the greater chamfered portion" in line 2. There is insufficient antecedent basis for these limitations in the claim.

Claim 5 is unclear as to what "the greater chamfered portion is fitted thereto later" relative to. Is it fitted later relative to the smaller chamfer, the inner ring or some other structure of the bearing assembly or motor?

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 and 2 are rejected under 35 U.S.C. 103(a) as being unpatentable over Furukoshi, USP 6,280,095, in view of Kubo, USP 5,826,681.

Furukoshi discloses a roller bearing comprising an outer ring (13), an inner ring (14), a plurality of rollers (16) placed between the two rings and an annular elastic member (23) that is fitted to an annular groove (21) formed in the outer circumference of the outer ring (13).

Furukoshi does not disclose a chamfered portion formed on one side face of the groove and a chamfered portion formed on the other side face are made Application/Control Number: 10/584,260

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asymmetric with each other and wherein the greater chamfered portion has a distance from the bottom face of the groove, which is set to 1/2 or more of the thickness of the elastic member.

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Kubo teaches an annular groove (5) holding an annular elastic member (1) which includes a chamfered portion (6) formed on one side face of the groove (5) and a chamfered portion (opposite 6 by reference character 2) formed on the other side face are made asymmetric with each other (6 is larger then the chamfer by 2) and wherein the greater chamfered portion (6) has a distance from the bottom face of the groove (at reference character 5), which is set to 1/2 or more of the thickness of the elastic member (1, see Figures 2a and 2c) for the purpose of providing a space (chamfer) which allows for movement of the components without deforming (moving) the location of the sealing ring relative to the two members being sealed (C3/L53-56).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the groove in Furukoshi and provide a chamfered portion formed on one side face of the groove and a chamfered portion formed on the other side face are made asymmetric with each other and wherein the greater chamfered portion has a distance from the bottom face of the groove, which is set to 1/2 or more of the thickness of the elastic member, as taught by Kubo, for the purpose of providing a space which allows for movement of the components without deforming the location of the sealing ring relative to the two members being sealed.

Claims 3-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Alten, USP 5,247,855, in view of Kubo, USP 5,826,681.

Alten discloses a motor device comprising a motor (engine), a housing (38 and additional closure structure around blades) that accommodates the motor and a roller bearing (3) having an outer ring (42), an inner ring (44), a plurality of rollers (46) placed between the two rings and an annular elastic member (48) that is fitted to an annular groove (51) formed in the outer circumference of the outer ring (42, see Figure 4).

Alten does not disclose a chamfered portion formed on one side face of the groove and a chamfered portion formed on the other side face are made asymmetric with each other and wherein the greater chamfered portion has a distance from the bottom face of the groove, which is set to 1/2 or more of the thickness of the elastic member.

Kubo teaches an annular groove (5) holding an annular elastic member (1) which includes a chamfered portion (6) formed on one side face of the groove (5) and a chamfered portion (opposite 6 by reference character 2) formed on the other side face are made asymmetric with each other (6 is larger then the chamfer by 2) and wherein the greater chamfered portion (6) has a distance from the bottom face of the groove (at reference character 5), which is set to 1/2 or more of the thickness of the elastic member (1, see Figures 2a and 2c) for the purpose of providing a space (chamfer) which allows for movement of the components without deforming (moving) the location of the sealing ring relative to the two members being sealed (C3/L53-56).

It would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the groove in Alten and provide a chamfered portion formed on one side face of the groove and a chamfered portion formed on the other side face are made asymmetric with each other and wherein the greater chamfered portion has a distance from the bottom face of the groove, which is set to 1/2 or more of the thickness of the elastic member, as taught by Kubo, for the purpose of providing a space which allows for movement of the components without deforming the location of the sealing ring relative to the two members being sealed.

Claim 5 is claiming a step in the assembly process which does not alter the final structure of the apparatus. Alten in view of Kubo discloses all of the structural limitations and therefore meets the limitations of the claim 5.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to JAMES PILKINGTON whose telephone number is (571)272-5052. The examiner can normally be reached on Monday - Friday 7-3.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Ridley can be reached on (571)272-6917. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/JAMES PILKINGTON/ Examiner, Art Unit 3656 8/20/09